

Carlos R Valdivia Garcia

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Professional Summary

Results-driven IT professional with 5+ years of experience in software testing and data analysis. Adept at designing and executing comprehensive test plans to ensure software quality and reliability. Proven expertise in analyzing complex data sets and deriving actionable insights using **Python** and **Java**. Skilled in leveraging strong analytical skills and problem-solving abilities to drive improvements in software performance and business operations. Seeking to contribute to a dynamic team where I can utilize my technical skills and experience to deliver high-quality solutions.

Technical Skills

- **Programming Languages:** Python, Java, C++, VHDL
- **Scripting Languages:** Bash
- **Tools and Technologies:** Docker, AWS, Git, Kubernetes.
- **Databases:** MySQL, PostgreSQL
- **Other Skills:** Agile methodologies, CI/CD, API development

Professional Experience

Software Engineer, Rhino Systems – Leon, Gto. Mexico June 2018 – June 2019

- Developed front-end interfaces and managed databases for banking products including credit cards and loans.
- Designed and implemented software solutions, improving transaction efficiency and user experience.

Laboratory Assistant, Quantum Optics Laboratory, University of Bonn, Germany June 2020 – Apr 2021

- Assisted in conducting experiments in quantum optics, including setup, calibration, and data collection.
- Analyzed experimental data and prepared detailed reports for research documentation.

Software Developer & Tester, Cognizant, Mexico June 2021 – March 2022

- Developed and maintained call system workflows for Medicare, ensuring accurate database management and call routing.
- Tested call flows to verify correct client identification and proper call redirection, improving system reliability.

Automation Tester, Hexaware Technologies, Mexico & USA March 2022 – Present

- Conducted automation testing for frontend applications for commercial airlines in Mexico, ensuring high-quality and efficient release cycles.
- Transitioned to Hexaware USA, focusing on automation testing for FreddieMac, utilizing Java and Python to develop and execute comprehensive test scripts.
- Led database testing efforts, working closely with a data analysis team to verify data integrity and performance, contributing to enhanced data-driven decision-making.

Education

University of Guanajuato, Mexico, Master's Degree in Theoretical Physics June 2019 – June 2021

- Specialized in quantum cryptography systems and numerical simulations of errors in quantum key distribution systems.
- Thesis conducted in collaboration with the Quantum Optics Laboratory at the University of Bonn, Germany.

University of Guanajuato, Mexico, Bachelor's Degree in Physics Engineering June 2013 – June 2018

- Focused on quantum cryptography and numerical simulations of cryptographic systems.

Languages

English: Fluent | **Spanish:** Native | **German:** Learning